



SEQUENCE LISTING

<110> Balint, Robert F.
Her, Jeng-Horng
KaloBios, Inc.

<120> Interaction-Activated Proteins

<130> 021167-000700US

<140> US 09/526,106

<141> 2000-03-15

<150> US 60/124,339

<151> 1999-03-15

<150> US 60/135,926

<151> 1999-05-25

<150> US 60/175,968

<151> 2000-01-13

<160> 26

<170> PatentIn Ver. 2.1

<210> 1

<211> 789

<212> DNA

<213> Escherichia coli

<220>

<221> CDS

<222> (1)..(789)

<223> TEM-1 beta-lactamase

<400> 1

cac cca gaa acg ctg gtg aaa gta aaa gat gct gaa gat cag ttg ggt 48
His Pro Glu Thr Leu Val Lys Val Lys Asp Ala Glu Asp Gln Leu Gly
1 5 10 15

gca cga gtg ggt tac atc gaa ctg gat ctc aac agc ggt aag atc ctt 96
Ala Arg Val Gly Tyr Ile Glu Leu Asp Leu Asn Ser Gly Lys Ile Leu
20 25 30

gag agt ttt cgc ccc gaa gaa cgt ttt cca atg atg agc act ttt aaa 144
Glu Ser Phe Arg Pro Glu Glu Arg Phe Pro Met Met Ser Thr Phe Lys
35 40 45

gtt ctg cta tgt ggc gcg gta tta tcc cgt att gac gcc ggg caa gag 192
Val Leu Leu Cys Gly Ala Val Leu Ser Arg Ile Asp Ala Gly Gln Glu
50 55 60

caa ctc ggt cgc cgc ata cac tat tct cag aat gac ttg gtt gag tac 240
Gln Leu Gly Arg Arg Ile His Tyr Ser Gln Asn Asp Leu Val Glu Tyr
65 70 75 80

tca cca gtc aca gaa aag cat ctt acg gat ggc atg aca gta aga gaa 288
Ser Pro Val Thr Glu Lys His Leu Thr Asp Gly Met Thr Val Arg Glu
85 90 95

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219

tta tgc agt gct gcc ata acc atg agt gat aac act gcg gcc aac tta	336
Leu Cys Ser Ala Ala Ile Thr Met Ser Asp Asn Thr Ala Ala Asn Leu	
100 105 110	
ctt ctg aca acg atc gga gga ccg aag gag cta acc gct ttt ttg cac	384
Leu Leu Thr Thr Ile Gly Gly Pro Lys Glu Leu Thr Ala Phe Leu His	
115 120 125	
aac atg ggg gat cat gta act cgc ctt gat cgt tgg gaa ccg gag ctg	432
Asn Met Gly Asp His Val Thr Arg Leu Asp Arg Trp Glu Pro Glu Leu	
130 135 140	
aat gaa gcc ata cca aac gac gag cgt gac acc acg atg cct gta gca	480
Asn Glu Ala Ile Pro Asn Asp Glu Arg Asp Thr Thr Met Pro Val Ala	
145 150 155 160	
atg gca aca acg ttg cgc aaa cta tta act ggc gaa cta ctt act cta	528
Met Ala Thr Thr Leu Arg Lys Leu Leu Thr Gly Glu Leu Leu Thr Leu	
165 170 175	
gct tcc cgg caa caa tta ata gac tgg atg gag gcg gat aaa gtt gca	576
Ala Ser Arg Gln Gln Leu Ile Asp Trp Met Glu Ala Asp Lys Val Ala	
180 185 190	
gga cca ctt ctg cgc tcg gcc ctt ccg gct ggc tgg ttt att gct gat	624
Gly Pro Leu Leu Arg Ser Ala Leu Pro Ala Gly Trp Phe Ile Ala Asp	
195 200 205	
aaa tct gga gcc ggt gag cgt ggg tct cgc ggt atc att gca gca ctg	672
Lys Ser Gly Ala Gly Glu Arg Gly Ser Arg Gly Ile Ile Ala Ala Leu	
210 215 220	
ggg cca gat ggt aag ccc tcc cgt atc gta gtt atc tac acg acg ggg	720
Gly Pro Asp Gly Lys Pro Ser Arg Ile Val Val Ile Tyr Thr Thr Gly	
225 230 235 240	
agt cag gca act atg gat gaa cga aat aga cag atc gct gag ata ggt	768
Ser Gln Ala Thr Met Asp Glu Arg Asn Arg Gln Ile Ala Glu Ile Gly	
245 250 255	
gcc tca ctg att aag cat tgg	789
Ala Ser Leu Ile Lys His Trp	
260	

<210> 2

<211> 263

<212> PRT

<213> Escherichia coli

<220>

<223> TEM-1 beta-lactamase

<400> 2

His Pro Glu Thr Leu Val Lys Val Lys Asp Ala Glu Asp Gln Leu Gly
1 5 10 15

Ala Arg Val Gly Tyr Ile Glu Leu Asp Leu Asn Ser Gly Lys Ile Leu
20 25 30

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<210> 3
<211> 5
<212> PRT
<213> Artificial Sequence
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<220>
<223> Description of Artificial Sequence:linker

<400> 3
Gly Gly Gly Gly Ser
  1             5
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<210> 4
 <211> 15
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:flexible linker

<400> 4
 Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser
 1 5 10 15

<210> 5
 <211> 6
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:hexa-histidine
 tag

<400> 5
 His His His His His His
 1 5

<210> 6
 <211> 5
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:flexible linker
 of variable length

<220>
 <221> REPEAT
 <222> (1)..(5)
 <223> (G-4S)-x, amino acids 1-5 may be repeated an
 undefined number of times

<400> 6
 Gly Gly Gly Gly Ser
 1 5

<210> 7
 <211> 267
 <212> PRT
 <213> Escherichia coli

<220>
 <223> Neomycin phosphotransferase II (NPTII)

<400> 7
 Met Gly Ser Ala Ile Glu Gln Asp Gly Leu His Ala Gly Ser Pro Ala
 1 5 10 15

Ala Trp Val Glu Arg Leu Phe Gly Tyr Asp Trp Ala Gln Gln Thr Ile
 20 25 30

Gly Cys Ser Asp Ala Ala Val Phe Arg Leu Ser Ala Gln Gly Arg Pro
 35 40 45
 Val Leu Phe Val Lys Thr Asp Leu Ser Gly Ala Leu Asn Glu Leu Gln
 50 55 60
 Asp Glu Ala Ala Arg Leu Ser Trp Leu Ala Thr Thr Gly Val Pro Cys
 65 70 75 80
 Ala Ala Val Leu Asp Val Val Thr Glu Ala Gly Arg Asp Trp Leu Leu
 85 90 95
 Leu Gly Glu Val Pro Gly Gln Asp Leu Leu Ser Ser His Leu Ala Pro
 100 105 110
 Ala Glu Lys Val Ser Ile Met Ala Asp Ala Met Arg Arg Leu His Thr
 115 120 125
 Leu Asp Pro Ala Thr Cys Pro Phe Asp His Gln Ala Lys His Arg Ile
 130 135 140
 Glu Arg Ala Arg Thr Arg Met Glu Ala Gly Leu Val Asp Gln Asp Asp
 145 150 155 160
 Leu Asp Glu Glu His Gln Gly Leu Ala Pro Ala Glu Leu Phe Ala Arg
 165 170 175
 Leu Lys Ala Arg Met Pro Asp Gly Glu Asp Leu Val Val Thr His Gly
 180 185 190
 Asp Ala Cys Leu Pro Asn Ile Met Val Glu Asn Gly Arg Phe Ser Gly
 195 200 205
 Phe Ile Asp Cys Gly Arg Leu Gly Val Ala Asp Arg Tyr Gln Asp Ile
 210 215 220
 Ala Leu Ala Thr Arg Asp Ile Ala Glu Glu Leu Gly Gly Glu Trp Ala
 225 230 235 240
 Asp Arg Phe Leu Val Leu Tyr Gly Ile Ala Ala Pro Asp Ser Gln Arg
 245 250 255
 Ile Ala Phe Tyr Arg Leu Leu Asp Glu Phe Phe
 260 265

<210> 8

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:CD40-binding
Trxpep

<400> 8

Cys Gly Pro Lys Glu Leu Arg Ile Gly Gly Arg Pro Arg Arg Pro Gly
 1 5 10 15

Pro Cys

<210> 9
 <211> 18
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:CD40-binding
 Trxpep

<400> 9
 Cys Gly Pro Glu Gly Gln Gly Gly Val Ala Val Gly Gly Val Gly Gly
 1 5 10 15

Pro Cys

<210> 10
 <211> 16
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:CD40-binding
 Trxpep

<400> 10
 Cys Gly Pro Ala Lys Arg Ala Asp Val Glu Phe Ser Leu Glu Pro Gly
 1 5 10 15

<210> 11
 <211> 21
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:CD40-binding
 Trxpep

<400> 11
 Ala Lys Pro Cys Gly Gln Gln Ser Ile His Leu Gly Gly Val Phe Glu
 1 5 10 15

Leu Gln Pro Gly Ala
 20

<210> 12
 <211> 18
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:CD40-binding
 Trxpep

<400> 12
 Cys Gly Pro Lys Ser Ala Gly Lys Gly Arg Lys Asp Arg Arg Lys Gly
 1 5 10 15

Pro Cys

<210> 13
 <211> 19
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:CD40-binding
 Trxpep

<400> 13
 Cys Gly Pro Pro Arg Thr Arg Val Asn His Gln Gly Gln Lys Thr Arg
 1 5 10 15

Gly Pro Cys

<210> 14
 <211> 18
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:CD40-binding
 Trxpep

<400> 14
 Cys Gly Pro Ala Gly Ala Ile Arg His Glu His Arg Gln Gly Leu Gly
 1 5 10 15

Pro Cys

<210> 15
 <211> 23
 <212> PRT
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<220>
 <223> Description of Artificial Sequence:CD40-binding
 Trxpep

<400> 15
 Leu Val Thr Leu Glu Asn Gly Lys Gln Leu Thr Val Lys Arg Gln Gly
 1 5 10 15

Leu Tyr Tyr Ile Tyr Ala Gln
 20

<210> 16
 <211> 18
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<220>
 <223> Description of Artificial Sequence:CD40-binding
 Trxpep

<400> 16
 Cys Gly Pro Asp Thr Gly Leu Glu Thr Asp Ala Ala Asp Ala Ser Gly
 1 5 10 15

Pro Cys

<210> 17
 <211> 18
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 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:CD40-binding
 Trxpep

<400> 17
 Cys Gly Pro Arg Arg Val Arg Glu Thr Val Ala Val Glu Ser Ser Gly
 1 5 10 15

Pro Cys

<210> 18
 <211> 18
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:CD40-binding
 Trxpep

<400> 18
 Cys Gly Pro Pro Cys Ala Thr Phe Glu Glu Ala Lys Ser Asn Gln Gly
 1 5 10 15

Pro Cys

<210> 19
 <211> 18
 <212> PRT
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:CD40-binding
 Trxpep

<400> 19
 Glu Thr Lys Lys Glu Asn Ser Phe Glu Met Gln Lys Gly Asp Gln Asn
 1 5 10 15

Pro Gln

<210> 20
 <211> 18
 <212> PRT
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<220>

<223> Description of Artificial Sequence:CD40-binding
Trxpep

<400> 20

Cys Gly Pro Gly Arg Glu Ser Arg Gly Arg Cys Tyr Thr Pro Ser Gly
1 5 10 15

Pro Cys

<210> 21

<211> 18

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence:CD40-binding
Trxpep

<400> 21

Thr Asp Pro Ser Gln Val Ser His Gly Thr Gly Phe Thr Ser Phe Gly
1 5 10 15

Leu Leu

<210> 22

<211> 18

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence:CD40-binding
Trxpep

<400> 22

Cys Gly Pro Asn Thr Pro Asp Glu Glu Met Ala Pro Gln Ala Pro Gly
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Pro Cys

<210> 23

<211> 18

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:CD40-binding
Trxpep

<400> 23

Cys Gly Pro Val Val His Ile Lys Thr Asn Glu Gln Ala Ala Pro Gly
1 5 10 15

Pro Cys

<210> 24
 <211> 18
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:CD40-binding
 Trxpep

<400> 24

Cys Gly Pro Val Ala Glu Glu Pro Ala Gly Gly Ala Gly Arg Pro Gly
 1 5 10 15

Pro Cys

<210> 25
 <211> 9
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:Her-2/neu
 Tyr1068 phosphorylation substrate peptide

<400> 25

Pro Val Pro Glu Tyr Ile Asn Gln Ser
 1 5

<210> 26
 <211> 5
 <212> PRT
 <213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:short flexible
 linker

<400> 26

Pro Gly Ser Gly Gly
 1 5

Handwritten:
 219
 210